

Claims

1. An electrical depilator, comprising substantially a main body, a motor, a reduction gear set, an arcuate shaft and a set of single-pieces, said arcuate shaft being supported on a shaft seat of the main body, a first stage gear of said reduction gear set being meshed with a driving wheel of said motor, a last stage gear being fixed on the single-piece which is located at the endmost position, each single-piece having a clipping surface and a supporting portion, the whole set of single-pieces being arranged in such a manner that the clipping surfaces are opposite to each other, a clipping gap being formed between opposite surfaces of two single-pieces, said whole set of single-pieces being coupled together by fixing members so as to rotate synchronously, and said whole set of single-pieces being fitted over the arcuate shaft all together.

2. The electrical depilator according to claim 1, wherein:
the fixing members are shifting yokes which are formed on both sides of each single-piece, and one shifting yoke on a single-piece is inserted into and locked with another shifting yoke on an adjacent single-piece so that the whole set of single-pieces are coupled together and rotated synchronously.

3. The electrical depilator according to claim 1, wherein:
the fixing members are fork bodies which are provided with shaft holes at centers thereof corresponding to the position of the arcuate shaft, each single-piece is provided at both sides with fork shaped slots, and both sides of each fork body are inserted into and locked with two fork shaped slots of two adjacent single-pieces, thereby the whole set of single-pieces are coupled together and rotated synchronously.

4. The electrical depilator according to claim 3, wherein:
a thin piece is fixed on each fork body, the thin pieces and the fork bodies, together with the whole set of single-pieces, are fit over the arcuate shaft, the thin piece is provided between two opposite clipping surfaces of two single-pieces, and two clipping gaps are formed between both sides of each thin piece and clipping surfaces of two single-pieces, respectively.

5. The electrical depilator according to claim 1, wherein:
the fixing members are bearing housings, and the whole set of single-pieces are

coupled together by the bearing housings so as to rotate synchronously.

6. The electrical depilator according to claim 1, wherein:

the fixing members are shaft pins, and the whole set of single-pieces are coupled together by the shaft pins so as to rotate synchronously.